

Substitute specification  
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Particle Accelerator Space Engine

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Patent # \_\_\_\_\_

**TITLE**

Particle Accelerator Space Engine

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2 claims

- 1 **Cross Reference to Related Applications** - This invention pertains to a propulsion device
- 2 employing particle accelerator / storage ring / braking device technology to provide novel
- 3 method and mechanism for vertical propulsion, referred to as "Gyroscopic Lift". The invention
- 4 also utilizes particle accelerator / storage ring / braking device in secondary method for
- 5 horizontal propulsion relative to the ship, referred to as "Impulse Propulsion".
- 6 **Federal Status of Funding** - The invention described herein is not a Federal funded research
- 7 and development project.
- 8 **Background of Invention** - The invention builds upon principles found in experimentation
- 9 by Hideo Hayasaka and Sakae Takeuchi at Tohoku University , Japan, as published in 1989. In
- 10 this experiment, high speed gyroscopes were allowed to fall between two laser beams inside a
- 11 vacuum chamber for the purpose of measuring the rate of fall. The conclusion was that the high
- 12 speed gyroscope fell at a lesser rate of acceleration than gravity. That experiment proved
- 13 controversial, with problems arising due to small test values of acceleration change, that
- 14 required extremely high rotational velocities. A solid gyroscope shatters at higher rotational
- 15 velocity that would provide better testing values. This invention soives that problem by utilizing
- 16 particle stream technology rather than a solid gyroscope. This invention increases a particles
- 17 sidestepping velocity to gravity from a minor fraction of circular orbit velocity to a value many
- 18 times greater than circular orbit velocity. The invention utilizes principle operations of three